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STATEMENT OF THE CLAIMS

1. (currently amended) A fall arrest device for use on an elongate support, said device

comprising:

chassis means having safety support retaining means to retain an elongate support

whilst allowing movement of the device therealong, and including a sliding element for

slidably engaging said elongate support;

first and second locking cam means for locking the device to the elongate support

in a fall arrest situation;

first and second link means; and

attaching means for attaching personal safety means to the device and

transmitting a load from the personal safety means to said link means;

in which said first and second locking cam means comprise respective first and

second cam elements each arranged for rotation about a respective first axis relative to

the chassis and able to move between a first locking position in which the cam element

traps the elongate support between itself and the sliding element and a second released

position in which the cam element does not trap the elongate support;

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the first and second link means each being connected to a respective one of the

first and second cam elements for mutual rotation about a respective second axis

separated from the corresponding said first axis by a fixed offset defined by the

respective cam element, the first and second link means being connected together for

mutual rotation about a third axis separated from said first and second axes, and the

attaching means being able to move relative to the link means, so that the first and second

locking cam means can be moved between their first and second positions by loads

applied to the device through the attaching means;

in which each of the first and second link means comprises two parts arranged for

reversible relative movement in response to an applied load from the attaching means

above a predetermined value, the movement being such that a part of the link means

intermediate said second and third axes descends relative to said second axis.

2. (currently amended) A device as claimed in claim 1, in which the cam means and link

means are arranged so that said movement of the two parts of a respective link means will

move at least one of said locking cam means towards its first locking position.

3. (currently amended) A device as claimed in claim 1, in which the first and second

locking cam elements means are arranged for rotation relative to one another about a

common first axis.

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4. (currently amended) A device as claimed in claim 3, in which the first and second

locking cam elements means and said common first axis are arranged for rotation about a

fourth axis spaced from and parallel to the common first axis, the fourth axis being

located nearer than the common first axis to the sliding element.

5. (original) A device as claimed in claim 4, in which the first and second locking cam

means are arranged for rotation about a boss which is arranged for rotation about the

fourth axis.

6. (currently amended) A device as claimed in claim $\underline{5}$ [[1]], in which the chassis means

includes at least one rotatable element having a peripheral recess.

7. (currently amended) A device as claimed in claim 6, in which the first and second

locking cam elements means and said common first axis are arranged for rotation about a

fourth axis spaced from and parallel to the common first axis, the fourth axis being

located nearer than the common first axis to the sliding element, and wherein the

rotatable element is rotatable can rotate about the fourth axis.

8. (currently amended) A device as claimed in claim 1, in which the first and cam

elements and first and second link means form a quadrilateral linkage defined by the first

axis, the second axis for the first link means, the second axis for the second link means,

and third axis, wherein the device can be configured in a first configuration and a second

configuration;

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wherein, in the first configuration, the first and second cam elements are in the

first locking position and the first and third axes of the quadrilateral linkage are offset

from one another by a first distance; and

wherein, in the second configuration, the first and second cam elements are in the

second released position and the first and third axes of the quadrilateral linkage are offset

from one another by a second distance, the second distance being less than the first

distance.

9. (currently amended) A device as claimed in according to claim 8, in which the

attaching means includes a loop passing around the link means so that the attaching

means can transmit a load to the device by the loop bearing on a bearing surface of the

link means, the bearing surface facing the interior of the quadrilateral linkage.

10. (currently amended) A device as claimed in claim 1, in which each link means

comprises a first arm arranged for rotation about said [[a]] respective second axis and a

second arm arranged for rotation about said third axis, the first and second arms being

connected for mutual rotation about a fifth axis, said reversible relative movement being

mutual rotation of the first and second arms about the said fifth axis.

11. (currently amended) A device as claimed in claim 10, in which the attaching means

includes a loop passing around the link means so that the attaching means can transmit a

load to the device by the loop bearing on a concave bearing surface of the first arm of the

respective link means facing the interior of the quadrilateral linkage, and wherein the

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bearing surface of each first arm is concave.

12. (currently amended) A device as claimed in claim 10, in which the attaching means

includes a loop passing around the link means so that the attaching means can transmit a

load to the device by the loop bearing on a concave bearing surface of the second arm of

the respective link means facing the interior of the quadrilateral linkage, and wherein the

bearing surface of each second arm is concave.

13. (Currently Amended) A device as claimed in according to claim 4, and further

comprising a control means arranged for rotation about said fourth axis, so that the cam

elements can be moved into the second, unlocked position by said rotation.

14. (currently amended) A device as claimed in according to claim 10, in which the

attaching means includes a loop passing around the link means so that the attaching

means can transmit a load to the device by the loop bearing on a bearing surface of the

link means facing the interior of the quadrilateral linkage, and wherein the load loads

applied to the bearing surface of the link means surfaces of the first arms by the loop will

urge at least one of the cam elements towards the first locking position.

15. (currently amended) A device as claimed in according to claim 14, and further

comprising an element limiting the movement of said loop so that it can only bear on

predetermined bearing surfaces of the link means the beating surfaces of the first arms.

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16. (cancelled)

17. (new) A fall arrest device for use on an elongate support, said device comprising:

chassis means having safety support retaining means to retain an elongate support

whilst allowing movement of the device therealong, and including a sliding element for

slidably engaging said elongate support;

first and second locking cam means for locking the device to the elongate support

in a fall arrest situation;

first and second link means; and

attaching means for attaching personal safety means to the device and

transmitting a load from the personal safety means to said link means;

in which said first and second locking cam means comprise respective first and

second cam elements each arranged for rotation about a respective first axis relative to

the chassis and able to move between a first locking position in which the cam element

traps the elongate support between itself and the sliding element and a second released

position in which the cam element does not trap the elongate support;

the first and second link means each being connected to a respective one of the

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first and second cam elements for rotation about a respective second axis separated from

the corresponding first axis, the first and second link means being connected together for

rotation about a third axis separated from said first and second axes, and the attaching

means being able to move relative to the link means, so that the first and second locking

cam means can be moved between their first and second positions by loads applied to the

device through the attaching means;

in which the first and cam elements and first and second link means form a

quadrilateral linkage defined by the first axis, the second axis for the first link means, the

second axis for the second link means, and third axis;

in which the device can be configured in a first configuration and a second

configuration;

wherein, in the first configuration, the first and second cam elements are in the

first locking position and the first and third axes of the quadrilateral linkage are offset

from one another by a first distance; and

wherein, in the second configuration, the first and second cam elements are in the

second released position and the first and third axes of the quadrilateral linkage are offset

from one another by a second distance, the second distance being less than the first

distance.

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18. (new) A device as claimed in claim 17, in which the first and second cam elements

are arranged for rotation relative to one another about a common first axis.

19. (new) A device as claimed in claim 18, in which the first and second cam elements

and said common first axis are arranged for rotation about a fourth axis spaced from and

parallel to the common first axis, the fourth axis being located nearer than the common

first axis to the sliding element.

20. (new) A device as claimed in claim 19, in which the first and second locking cam

means are arranged for rotation about a boss which is arranged for rotation about the

fourth axis.

21. (new) A device as claimed in claim 18, in which the chassis means includes at least

one rotatable element having a peripheral recess.

22. (new) A device as claimed in claim 21, in which the first and second cam elements

and said common first axis are arranged for rotation about a fourth axis spaced from and

parallel to the common first axis, the fourth axis being located nearer than the common

first axis to the sliding element, and wherein the rotatable element is rotatable about the

fourth axis.

23. (new) A device as claimed in claim 17, wherein the respective second axis of the

first and second link means is separated from the corresponding first axis by a fixed

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offset defined by the respective cam element.

24. (new) A device as claimed in claim 17, wherein the first and second link means each

include two parts arranged for reversible relative movement in response to a load applied

by the attaching means.

25. (new) A device as claimed in claim 24, in which the attaching means includes a loop

passing around the link means so that the attaching means can transmit a load to the

device by the loop bearing on a bearing surface of the link means, the bearing surface

facing the interior of the quadrilateral linkage.

26. (new) A device as claimed in claim 24, in which said first and second link means

each comprise a first arm arranged for rotation about said respective second axis and a

second arm arranged for rotation about said third axis, the first and second arms being

connected for mutual rotation about a fifth axis.